



École Secondaire LAURIER MACDONALD High School
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COURSE STANDARDS AND PROCEDURES

COURSE:

Sec 4 Environmental Science 558-444

CLASS RESOURCES: Practical Guide, Study Guide and Observatory: The Environment

COURSE DESCRIPTION: Secondary 4 Science and Technology is a course for secondary 4 students who wish to continue in the science pathway. It is taken in action to the Minarsty sec 4 scienc4e course This course is a prerequisite for Physics and Chemisrty in secondary 5. The main focus of this course is the environment and technology. The course involves hands-on, inquiry-based learning to develop problem solving, to emphasize the application of science knowledge, and to teach communication using scientific and technological language.

In this course, students will also become familiar with standard laboratory practices and be encouraged to apply theoretical concepts in a practical way through lab work.

MYP AIMS ADDRESSED BY THE COURSE:

MYP Course Aims	MEES Course Objectives
Develops skills to design and perform investigations, evaluate evidence, and reach conclusions	Competency 1: Seeks answer or solutions to scientific or technological problems
Cultivate analytical inquiring and flexible minds that poses questions, solves problems, construct explanations, and judge arguments.	Competency 2: Makes the most of his/her knowledge of science and technology

FUNDAMENTAL IB CONCEPTS: - Holistic learning: While teaching climate change, we look at different facets such as historical and ethical issues. Mathematics is also incorporated in different topics such as concentration, power, energy efficiency, and much more.

- Communication: Students will conduct labs and complete hands-on activities and assignments in which they will have to use the appropriate scientific language.

KEY INSTRUCTIONAL STRATEGIES/APPROACHES TO LEARNING: - The ATLs that will be focused on is critical thinking. Students will analyze and evaluate issues and ideas by

gathering and organizing relevant information to formulate an argument, and interpret data to draw reasonable conclusions and generalizations. This will be achieved by incorporating various inquiry-based activities throughout the year.

IB MYP LEARNER PROFILE:- Knowledgeable: During the inquiry-based activities, students will be asked to use their previous knowledge on different scientific concepts in order to solve a new problem.

- Inquirers: Students will develop their skills for inquiry.

FORMATIVE & SUMMATIVE ASSESSMENT INCLUDING MYP ASSESSMENT:

Term 1		
<i>Competencies targeted</i>	<i>Evaluation methods</i>	<i>Timeline</i>
Competency 1: Theory; 60% Competency 2: Practical; (Labs) 40%	May include, but not limited to: -Quizzes -Tests -Lab reports -Assignments -Homework	To finish by: November 3 rd
<i>Communication to students and parents</i>	<i>Materials required</i>	
Curriculum Night Progress report Report card Verbal/Written communication, telephone/email may be on an as needed basis	-Pens/Pencils/Highlighters -Notebook/Loose leaf and binder -Scientific calculator -Study Guide -Practical Guide	
<i>IB MYP Criterion</i>	<i>Examples of assessment/feedback both formative and/or summative</i>	
<ul style="list-style-type: none"> • <i>A: Knowing and understanding</i> • <i>B: Inquiring and designing</i> • <i>C: Processing and evaluating</i> 		

<ul style="list-style-type: none"> • <i>D: Reflecting on the impacts of science</i> 	
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Term 2		
<i>Competencies targeted</i>	<i>Evaluation methods</i>	<i>Timeline</i>
Competency 1: Theory; 60% Competency 2: Practical; (Labs and Design cycle) 40%	May include, but not limited to: -Quizzes -Tests -Lab reports -Assignments -Homework -Lab exam (TBD) -Midterm	To finish by: January 26 th
<i>Communication to students and parents</i>	<i>Materials required</i>	
Report card in February Verbal/Written communication, telephone/e-mail may be on an as needed basis	-Pens/Pencils/Highlighters -Notebook/Loose leaf and binder -Scientific calculator -Study Guide -Practical Guide	
<i>IB MYP Criterion</i>	<i>Examples of assessment/feedback both formative and/or summative</i>	
<ul style="list-style-type: none"> • <i>A: Knowing and understanding</i> • <i>B: Inquiring and designing</i> • <i>C: Processing and evaluating</i> • <i>D: Reflecting on the impacts of science</i> 	Snowman project Lab exam (TBD) Theory Mid-year exam	

Term 3		
<i>Competencies targeted</i>	<i>Evaluation methods</i>	<i>Timeline</i>
Competency 1: Theory; 60% Competency 2: Practical; (Labs and Design cycle) 40%	May include, but not limited to: -Quizzes -Tests -Lab reports -Assignments -Homework	To finish by: June 21 st

	-Lab exam -Midterm	
<i>Communication to students and parents</i>	<i>Materials required</i>	
Report card in February Verbal/Written communication, telephone/e-mail may be on an as needed basis	-Pens/Pencils/Highlighters -Notebook/Loose leaf and binder -Scientific calculator -Study Guide -Practical Guide	
<i>IB MYP Criterion</i>	<i>Examples of assessment/feedback both formative and/or summative</i>	
<ul style="list-style-type: none"> • <i>A: Knowing and understanding</i> • <i>B: Inquiring and designing</i> • <i>C: Processing and evaluating</i> • <i>D: Reflecting on the impacts of science</i> 	Lab exam June theory exam	

Additional Information/Specifications

- This course does not have a final exam. The final course grade comes entirely from the school course grade.
- This course has a final exam administered by the English Montreal School Board. The final course grade is determined by taking 70% of the school course grade and 30% of the school board exam.
- This course has a final exam administered by the *Ministère de l'Éducation et de l'Enseignement Supérieur* (MEES). The final course grade is determined by taking 50% of the school course grade and 50% of the MEES exam. Please note that the final course grade is subject to MEES moderation.